



# Australian Bureau of Statistics

## CensusAtSchool Australia

Education Services home page > CensusAtSchool home page > Year 9 Resources

### Resources



### CaSQ 32B - Using the Environmental Deviation from the Mean

You can download this activity as a rich text file (RTF) using the link at the bottom of the page.

#### Task: Calculating the deviation from the mean

The following table shows the mean value calculated for all students who completed the 2010 CensusAtSchool questionnaire.

1. For each State or Territory, calculate its overall mean.

| Issue                         | ACT   | NSW   | NT    | QLD   | SA    | TAS   | VIC   | WA    |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Reducing pollution            | 713.4 | 694.6 | 679.2 | 652.6 | 655.2 | 621.7 | 680.3 | 685.9 |
| Recycling our rubbish         | 721.2 | 685.8 | 641.2 | 628.3 | 638.0 | 615.4 | 673.9 | 651.3 |
| Conserving water              | 768.4 | 722.2 | 672.6 | 690.0 | 723.3 | 625.1 | 752.1 | 712.0 |
| Reducing energy usage         | 681.3 | 647.8 | 623.6 | 615.5 | 597.5 | 563.6 | 635.5 | 630.5 |
| Conserving old growth forests | 635.2 | 585.2 | 616.5 | 580.0 | 552.8 | 558.3 | 568.3 | 587.8 |
| Protecting coastal/marine     | 702.7 | 672.9 | 672.8 | 668.2 | 632.5 | 635.3 | 646.5 | 667.1 |

|                              |  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|
| environments                 |  |  |  |  |  |  |  |  |
| State/Territory Overall mean |  |  |  |  |  |  |  |  |

2. For each State or Territory, shade in red the ratings that are below its overall mean.

3. Comment on any patterns or differences you see when you compare the overall mean for each State or Territory and how each rating compares with its overall mean.

4. For your own State or Territory, discuss the results when compared to the other States and Territories and give possible reasons.

### Extension:

5. Explain how you would go about collecting evidence for the reasons you gave in question 4.

**Download the full activity:**

**RTF**

[Back to top](#)

This page last updated 12 November 2013

© Commonwealth of Australia 2008



Unless otherwise noted, content on this website is licensed under a Creative Commons Attribution 2.5 Australia Licence together with any terms, conditions and exclusions as set out in the website Copyright notice. For permission to do anything beyond the scope of this licence and copyright terms contact us.